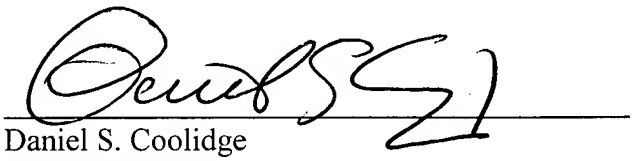
## REMARKS

Attached is a marked-up version of the changes being made by the current amendment. Applicant requests that the changes be entered.

Applicant asks that all claims be examined. No new matter has been added. Enclosed is a $206 check for excess claim fees for seven additional dependent claims and one additional independent claim. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: Aug 27, 2001



Daniel S. Coolidge
Reg. No. 46,071

Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804
Telephone: (617) 542-5070
Facsimile: (617) 542-8906

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**Version with markings to show changes made**

In the specification:

On page 1, immediately below the title, insert the following paragraph:

**--COPYRIGHT NOTICE**

A portion of the disclosure of this document contains material that is subject to copyright protection. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure, as it appears in the Patent and Trademark Office patent file or records, but otherwise reserves all copyright works whatsoever.—

Replace the paragraph beginning at page 3, line 3 with the following rewritten paragraph: --Graphical functions allow a user to use a diagram to visually represent a procedure performed by a function in a statechart system. A diagrammatic representation of the function procedure can be easier to understand and modify than a textual representation. In a statechart system which includes built-in state diagram parsing capabilities, the parser may be used to check the diagram for errors. A statechart system's diagram animation and debugging capabilities can be used to step through the graphical function to find errors.--

At page 3, line 3 delete the first instance of "represent" and after "visually" insert --represent--.

At page 6, line 4 delete "charts" and insert --statecharts--.

At page 6, line 5, insert after "are" --,-- and after "course" --,--.

At page 6, line 16, after "manner" insert --,--.

At page 6, line 18, after "invocation" delete "is".

At page 6, line 19 delete after rules "a".

At page 6, line 24 delete after "function" ",".

At page 6, line 26, delete "," after "recursive".

At page 8, delete line 23.

At page 8, line 24, replace "iii" with --ii--.

At page 8, line 26, replace "scop" with --scope--.

At page 8, line 27 replace "iv" with --iii--.

At page 8 line 32, replace "v" with --iv--.

The following claims have been added:

26. The method of claim 24 wherein the function prototype defines a textual format for invoking the function.

27. The method of claim 26 wherein the graphical representation of the finite state machine includes at least one invocation of the function using the defined textual format.

28. The method of claim 24 further comprising shadowing a function, wherein shadowing comprises using in a function invocation a function definition closest to the point of invocation of the function in a state diagram hierarchy.

29. The method of claim 24 wherein the function is exportable by a statechart and may be invoked anywhere in the finite state machine in which the chart appears, including other charts that define the finite state machine.

30. The method of claim 24 wherein the emulation comprises computer code generation.

31. The method of claim 24, wherein the graphical representation of the function comprises a function prototype defining a textual format for invoking the function; and

wherein the graphical representation of the finite state machine includes an invocation of the function using the defined textual format.

32. A computer readable medium having encoded thereon instructions for causing a computer system to--

receive through a graphical user interface a graphical representation of a finite state machine including a graphical representation of a function; and

emulate the represented finite state machine.

33. The computer readable medium of claim 32, wherein the graphical representation of the function comprises a function prototype defining a textual format for invoking the function; and

wherein the graphical representation of the finite state machine includes an invocation of the function using the defined textual format.